

# Corn Herbicide Showcase: No Atrazine

## Arlington, WI 2024

### Trial Information

Trial Sponsor(s): Albaugh, BASF, Bayer, Syngenta, Valent, UPL

Objective: Evaluate multiple 1- and 2-pass corn herbicide programs without atrazine for weed control and crop safety

Crop: Corn

Hybrid: NK9777-DV-EZ1

Weed species (pressure): common ragweed (high)  
giant foxtail (high-very high)

Herbicide Application(s): PRE – 5/1  
EPOST – 5/21 (V2 corn)  
POST – 6/10 (V5 corn)

For the full report see trial #24-ARL-CN04 in the [2024 Wisconsin Weed Science Research Report](#)



# Corn Herbicide Showcase: No Atrazine (Arlington, WI 2024)

Trt #	Herbicide (rate acre <sup>-1</sup> )	Common Ragweed (%)				Giant Foxtail (%)				Yield <sup>b</sup> bu acre <sup>-1</sup>	
		5/22	6/10	6/26	10/8	5/22	6/10	6/26	10/8		
1	Untreated Check	0	0	0	0	0	0	0	0	41 b	
<b>One-Pass – PRE (5/1)</b>											
2	Storen (2.4 qt) + Princep 4L (1 qt)	100	99	100	100	99	100	97	96	212 a	
3	TriVolt (20 oz) + Princep 4L (1 qt)	98	99	98	98	98	100	92	93	213 a	
<b>One-Pass – EPOST (5/23)</b>		<b>EPOST</b>				<b>EPOST</b>					
4	Priority Meso (2.4 qt) + Roundup PM3 (30 oz) + NIS (0.25%) + AMSOL (2.5%)	0	97	87	87	0	99	89	82	190 a	
5	Priority S Meso (2.4 qt) + Roundup PM3 (30 oz) + NIS (0.25%) + AMSOL (2.5%)	0	97	82	82	0	99	89	84	208 a	
6	Harness MAX (55 oz) + Roundup PM3 (30 oz) + NIS (0.25%) + AMSOL (2.5%)	0	98	91	91	0	100	86	76	205 a	
<b>Two-Pass – PRE (5/1) <i>fb</i> POST (6/10)</b>		<b>POST</b>				<b>POST</b>					
7	Maverick (18 oz) + Princep 4L (0.75 qt) <i>fb</i> Maverick (14 oz) + Roundup PM3 (24 oz) + NIS (0.25%) + AMSOL (2.5%)	100	98	100	100	88	95	99	99	213 a	
8	Maverick (24 oz) <i>fb</i> Roundup PM3 (24 oz) + Status (5 oz) + NIS (0.25%) + AMSOL (2.5%)	98	94	100	100	88	94	94	95	227 a	
9	Maverick (18 oz) <i>fb</i> Maverick (14 oz) + Roundup PM3 (24 oz) + NIS (0.25%) + AMSOL (2.5%)	94	89	100	100	85	89	97	96	223 a	
10	Storen (1.2 qt) <i>fb</i> Storen (1.2 qt) + Roundup PM3 (24 oz) + AMSOL (2.5%)	95	95	100	100	96	97	99	99	217 a	
11	Callisto (3 oz) + Princep 4L (1 qt) <i>fb</i> Acuron GT (3.75 pt) + NIS (0.25%) + AMSOL (2.5%)	98	96	100	100	60	65	90	98	231 a	
12	TriVolt (12 oz) <i>fb</i> DiFlexx (8 oz) + Roundup PM3 (30 oz) + Warrant (3 pt) + COC (1%) + Class Act Ridion (1%)	90	97	99	100	97	98	98	98	216 a	
13	Harness (2 pt) <i>fb</i> Laudis (3 oz) + DiFlexx (8 oz) + Roundup PM3 (30 oz) + MSO (1%) + Class Act Ridion (1%)	82	67	100	100	99	97	91	85	222 a	
14	Verdict (16 fl oz) <i>fb</i> Roundup PM3 (30 fl oz) + Status (5 oz) + Zidua SC (2.5 fl oz) + COC (1%) + AMSOL (2.5%)	99	88	100	100	98	93	97	99	221 a	
15	Surtain (14 fl oz) <i>fb</i> Roundup PM3 (30 fl oz) + Status (5 oz) + Zidua SC (2.5 fl oz) + COC (1%) + AMSOL (2.5%)	95	93	100	100	90	94	99	99	216 a	
16	Intrava DX (21 fl oz) + Moccasin II Plus (1.33 pt) <i>fb</i> Intermoc (64 fl oz) + AMS (3 lb)	92	92	99	100	98	99	99	99	234 a	
		LSD ( $\alpha=0.10$ )	4	4	1	3	4	3	3	3	27
		p value	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<0.001

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>Yield values with the same letter are not significantly different.

# Corn Herbicide Showcase: No Atrazine Arlington, WI 2024

Plot pictures taken on 5/22  
21 days after the PRE application

The number in the upper right-hand corner is the average % giant foxtail control of 4 replications

**21 days after PRE (5/22)**

**Untreated Check**

**0%**



21 days after PRE (5/22)

PRE: 2.4 qt Storen + 1 qt Princep 4L

99%



21 days after PRE (5/22)

PRE: 20 oz TriVolt + 1 qt Princep 4L

99%



21 days after PRE (5/22)

PRE: 18 oz Maverick + 0.75 qt Princep 4L

88%



**21 days after PRE (5/22)**  
**PRE: 24 oz Maverick**

**88%**



**21 days after PRE (5/22)**

**PRE: 18 oz Maverick**

**85%**



**21 days after PRE (5/22)**

**PRE: 1.2 qt Storen**

**96%**



21 days after PRE (5/22)

PRE: 3 oz Callisto + 1 qt Princep 4L

60%



**21 days after PRE (5/22)**

**PRE: 12 oz TriVolt**

**97%**



**21 days after PRE (5/22)**

**PRE: 2 pt Harness**

**99%**



**21 days after PRE (5/22)  
PRE: 16 oz Verdict**

**98%**



**21 days after PRE (5/22)**

**PRE: 14 oz Sustain**

**90%**



**21 days after PRE (5/22)**

**PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus**

**98%**



# Corn Herbicide Showcase: No Atrazine Arlington, WI 2024

Plot pictures taken on 6/10

40 days after the PRE application

18 days after the EPOST application

The day of the POST application

The number in the upper right-hand corner is the average % giant foxtail control of 4 replications

**40 days after PRE (6/10)**  
**Untreated Check**

**0%**



40 days after PRE (6/10)

PRE: 2.4 qt Storen + 1 qt Princep 4L

100%



40 days after PRE (6/10)

PRE: 20 oz TriVolt + 1 qt Princep 4L

100%



18 days after EPOST (6/10)

99%

EPOST: 2.4 qt Priority Meso + 30 oz Roundup PM3 + NIS + AMS



**18 days after EPOST (6/10)**

**99%**

**EPOST: 2.4 qt Priority S Meso + 30 oz Roundup PM3 + NIS + AMS**



18 days after EPOST (6/10)

EPOST: 55 oz Harness MAX + 30 oz Roundup PM3 + NIS + AMS

100%



**40 days after PRE (6/10)**  
**PRE: 18 oz Maverick + 0.75 qt Princep 4L**

**G. Foxtail = 95%**  
**C. Ragweed = 98%**



**40 days after PRE (6/10)**  
**PRE: 24 oz Maverick**

**G. Foxtail = 94%**  
**C. Ragweed = 94%**



**40 days after PRE (6/10)**  
**PRE: 18 oz Maverick**

**G. Foxtail = 89%**  
**C. Ragweed = 89%**



**40 days after PRE (6/10)**  
**PRE: 1.2 qt Storen**

**G. Foxtail = 97%**  
**C. Ragweed = 95%**



**40 days after PRE (6/10)**  
**PRE: 3 oz Callisto + 1 qt Princep 4L**

**G. Foxtail = 65%**  
**C. Ragweed = 96%**



**40 days after PRE (6/10)**  
**PRE: 12 oz TriVolt**

**G. Foxtail = 98%**  
**C. Ragweed = 97%**



40 days after PRE (6/10)  
PRE: 2 pt Harness

G. Foxtail = 97%  
C. Ragweed = 67%



**40 days after PRE (6/10)**

**PRE: 16 oz Verdict**

**G. Foxtail = 93%**

**C. Ragweed = 88%**



**40 days after PRE (6/10)**  
**PRE: 14 oz Sustain**

**G. Foxtail = 94%**  
**C. Ragweed = 93%**



**40 days after PRE (6/10)**  
**PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus**

**G. Foxtail = 99%**  
**C. Ragweed = 92%**



# Corn Herbicide Showcase: No Atrazine Arlington, WI 2024

Plot pictures taken on 6/26

56 days after the PRE application

34 days after the EPOST application

16 days after the POST application

The number in the upper right-hand corner is the average % giant foxtail control of 4 replications

**56 days after PRE (6/26)**

**Untreated Check**

**0%**



56 days after PRE (6/26)

PRE: 2.4 qt Storen + 1 qt Princep 4L

97%



**56 days after PRE (6/26)**  
**PRE: 20 oz TriVolt + 1 qt Princep 4L**

**92%**



34 days after EPOST (6/26)

89%

EPOST: 2.4 qt Priority Meso + 30 oz Roundup PM3 + NIS + AMS



34 days after EPOST (6/26)

89%

EPOST: 2.4 qt Priority S Meso + 30 oz Roundup PM3 + NIS + AMS



34 days after EPOST (6/26)

86%

EPOST: 55 oz Harness MAX + 30 oz Roundup PM3 + NIS + AMS



**16 days after POST (6/26)**

**PRE: 18 oz Maverick + 0.75 qt Princep 4L fb**

**POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS**

**99%**



16 days after POST (6/26)

PRE: 24 oz Maverick *fb*

POST: 5 oz Status + 24 oz Roundup PM3 + NIS + AMS

94%



16 days after POST (6/26)

PRE: 18 oz Maverick *fb*

POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS

97%



16 days after POST (6/26)

PRE: 1.2 qt Storen *fb*

POST: 1.2 qt Storen + 24 oz Roundup PM3 + AMS

99%



16 days after POST (6/26)

PRE: 3 oz Callisto + 1 qt Princep 4L fb

POST: 3.75 pt Acuron GT + NIS + AMS

90%



16 days after POST (6/26)

PRE: 12 oz TriVolt *fb*

POST: 8 oz DiFlexx + 30 oz RU PM3 + 3 pt Warrant + COC + Class Act Ridion

98%



16 days after POST (6/26)

PRE: 2 pt Harness *fb*

POST: 3 oz Laudis + 8 oz DiFlexx + 30 oz RU PM3 + MSO + Class Act Ridion

91%



16 days after POST (6/26)

PRE: 16 oz Verdict *fb*

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS

97%



16 days after POST (6/26)

PRE: 14 oz Surtain *fb*

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS

99%



16 days after POST (6/26)

PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus *fb*

POST: 64 oz InterMoc + AMS

99%



# Corn Herbicide Showcase: No Atrazine Arlington, WI 2024

Plot pictures taken on 10/8  
2 days before corn harvest

The number in the upper right-hand corner is the average % giant foxtail control of 4 replications

# Corn Harvest (10/8)

## Untreated Check

0%



Corn Harvest (10/8)

96%

PRE: 2.4 qt Storen + 1 qt Princep 4L



Corn Harvest (10/8)

93%

PRE: 20 oz TriVolt + 1 qt Princep 4L



Corn Harvest (10/8)

82%

EPOST: 2.4 qt Priority Meso + 30 oz Roundup PM3 + NIS + AMS



Corn Harvest (10/8)

84%

EPOST: 2.4 qt Priority S Meso + 30 oz Roundup PM3 + NIS + AMS



Corn Harvest (10/8)

EPOST: 55 oz Harness MAX + 30 oz Roundup PM3 + NIS + AMS

76%



Corn Harvest (10/8)

PRE: 18 oz Maverick + 0.75 qt Princep 4L fb

99%

POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS



Corn Harvest (10/8)

PRE: 24 oz Maverick *fb*

POST: 5 oz Status + 24 oz Roundup PM3 + NIS + AMS

95%



Corn Harvest (10/8)

PRE: 18 oz Maverick *fb*

POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS

96%



Corn Harvest (10/8)

PRE: 1.2 qt Storen *fb*

POST: 1.2 qt Storen + 24 oz Roundup PM3 + AMS

99%



Corn Harvest (10/8)

PRE: 3 oz Callisto + 1 qt Princep 4L fb

POST: 3.75 pt Acuron GT + NIS + AMS

98%



Corn Harvest (10/8)

PRE: 12 oz TriVolt *fb*

POST: 8 oz DiFlexx + 30 oz RU PM3 + 3 pt Warrant + COC + Class Act Ridion

98%



Corn Harvest (10/8)

PRE: 2 pt Harness *fb*

POST: 3 oz Laudis + 8 oz DiFlexx + 30 oz RU PM3 + MSO + Class Act Ridion

85%



Corn Harvest (10/8)

PRE: 16 oz Verdict *fb*

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS

99%



Corn Harvest (10/8)

PRE: 14 oz Sustain fb

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS

99%



Corn Harvest (10/8)

PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus *fb*

POST: 64 oz InterMoc + AMS

99%

